

# At Last, an Outstanding Universal Cement That Closes the Gap Against Microleakage!

by Parkell

**OVER THE LAST DECADE**, there have been significant changes to the restorative materials used in the fabrication of fixed restorations. Whereas in years past, the most prescribed crowns were of the porcelain to metal variety, today, clinicians overwhelmingly look to ceramics, specifically zirconia, to fill their patient's restorative needs.

Predicta® Bioactive Cement was developed with an eye on today's most popular fixed restorative substrates, which makes it the perfect choice for addressing the top issues many doctors face following crown cementation. For example, marginal breakdown due to decay, debonding, and in the case of thin ceramic or lithium disilicate restorations, crown fracture.

## Protecting the Margin (The Bioactive Benefit)

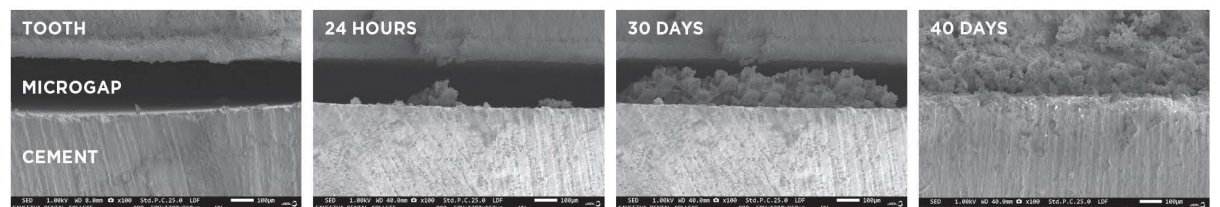
Because there are a lot of really good resin-based cements already in the marketplace, Parkell's product development team knew when they decided to start working on a resin cement, they had to do more than just match those other products, property for property, and feature for feature. That realization proved motivation enough for Parkell's PhD chemists to develop a cement capable of doing more than just lute the crown to the tooth.

That something more came in the form of Predicta Cement's bioactivity, and its ability to continuously release and recharge beneficial ions. With the release and recharge of calcium, phosphate, and fluoride ions, Predicta Cement actively participates in the formation of a dense layer of hydroxyapatite across microgaps, which, in turn shields vulnerable crown margins from the harsh elements always present in the oral cavity.\*

By being able to offer this unprecedented protection against secondary caries, and as a result increase the odds of a healthy crown-tooth marginal interphase, Parkell believes they have come up with something currently unmatched by any competitor.

## Strong, Retentive, and So Much More

With all of the excitement about its bioactive benefits, it's easy to overlook the other high-end features packed into a 5ml syringe of Predicta Cement. Because it contains MDP, Predicta Cement produces strong bonds to zirconia without the need for additional primers. When used in combination with a silane-based primer, Predicta



SEMs demonstrating rapid hydroxyapatite growth within the microgap between Predicta® Bioactive Cement and freshly extracted human premolars. (Images courtesy of Saveetha Dental College)

Cement acts to create a bond to etched porcelain ceramic and lithium disilicate restorations that some have described as the fusing together of the two substrates. This strong adhesion helps to minimize the possibility of restoration fracture.

From easy dispensing to easy cleanup to no post-op sensitivity, Predicta Cement boasts a long list of must-have features every dental clinician who is looking to keep up with the continuously evolving world of fixed prosthodontics can't ignore.

## Features

- A self-adhesive, self-etching, dual-cure resin cement, which exhibits robust bioactivity
- Outstanding bond strength across a full range of substrates (including zirconia) without the need of additional primers

- Continuous release and recharge of beneficial ions (calcium, phosphate, and fluoride)
- High radiopacity
- Low film thickness for complete seating of restorations
- Contains MDP for strong bonds to zirconia
- No post-op sensitivity
- Optimal viscosity and consistency for easy handling and cleanup
- Available shades: Translucent and A2

## Indications

Cementation of indirect restorations including porcelain ceramic, lithium disilicate, zirconia, composite and metal-based inlays, onlays, crowns, bridges, and posts.

\*Based on in vitro test models.